

Refine Search

Search Results -

Terms	Documents
L27 and (key near access or access near key)	4

Database:

US Pre-Grant Publication Full-Text Database
 US Patents Full-Text Database
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 EPO Abstracts Database
 JPO Abstracts Database
 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

Search:

Search History

DATE: Friday, September 24, 2004 [Printable Copy](#) [Create Case](#)

<u>Set</u> <u>Name</u> side by side	<u>Query</u>	<u>Hit</u> <u>Count</u>	<u>Set</u> <u>Name</u> result set
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>			
<u>L28</u>	L27 and (key near access or access near key)	4	<u>L28</u>
<u>L27</u>	(build\$ or creat\$) near (database or data with base) near table	229	<u>L27</u>
<u>L26</u>	(build\$ or creat\$) near (database or data with base) near key with access	2	<u>L26</u>
<u>L25</u>	L24 and (build\$ or creat\$)	212	<u>L25</u>
<u>L24</u>	L22 and access near key	228	<u>L24</u>
<u>L23</u>	L22 and (build\$ or construct\$) near access near key	0	<u>L23</u>
<u>L22</u>	(database or data with base) near table	11039	<u>L22</u>
<u>L21</u>	L20 and values	42	<u>L21</u>
<u>L20</u>	L19 and data near element	46	<u>L20</u>
<u>L19</u>	L17 and (database or data with base)	372	<u>L19</u>
<u>L18</u>	L17 and (database or data with base) near table	40	<u>L18</u>
<u>L17</u>	L16 and (definition or define)	1531	<u>L17</u>
<u>L16</u>	configur\$ near key	3623	<u>L16</u>

<u>L15</u>	configur\$ near key near definition	0	<u>L15</u>
<u>L14</u>	L13 and transaction near data	59	<u>L14</u>
<u>L13</u>	L12 and (database or data with base)	538	<u>L13</u>
<u>L12</u>	key near definition	967	<u>L12</u>
<u>L11</u>	707.clas.	22527	<u>L11</u>
<u>L10</u>	707/103r	1518	<u>L10</u>
<u>L9</u>	705.clas.	29136	<u>L9</u>
<u>L8</u>	705/39	1646	<u>L8</u>
<u>L7</u>	L4 and (multilevel or multi-level or multitier or multi-tier)	5	<u>L7</u>
<u>L6</u>	L4 and (multilevel or multi-level or multitier or multi-tier) near (organization or company)	0	<u>L6</u>
<u>L5</u>	L4 and (multilevel or multi-level) near (organization or company)	0	<u>L5</u>
<u>L4</u>	financial near2 services near (organization or company)	241	<u>L4</u>
<u>L3</u>	(multilevel or multi-level) near2 business near (organization or company)	8	<u>L3</u>
<u>L2</u>	L1 and dislay\$	1	<u>L2</u>
<u>L1</u>	process\$ near relationship near objects	32	<u>L1</u>

END OF SEARCH HISTORY

[First Hit](#) [Fwd Refs](#) [Previous Doc](#) [Next Doc](#) [Go to Doc#](#)



Generate Collection



L21: Entry 36 of 42

File: USPT

Dec 21, 1999

US-PAT-NO: 6006222

DOCUMENT-IDENTIFIER: US 6006222 A

TITLE: Method for organizing information

DATE-ISSUED: December 21, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Culliss; Gary	Overland Park	KS	66214	

APPL-NO: 08/ 904795 [\[PALM\]](#)

DATE FILED: August 1, 1997

PARENT-CASE:

RELATED APPLICATION This patent application is a continuation-in-part of co-pending patent application, Ser. No. 08/840,922, filed Apr. 25, 1997, also entitled "Method for Organizing Information."

INT-CL: [06] [G06 F 17/30](#)

US-CL-ISSUED: 707/5; 707/10

US-CL-CURRENT: [707/5](#); [707/10](#)

FIELD-OF-SEARCH: 707/5, 707/3, 707/10, 707/2, 707/1

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	5321833	June 1994	Chang et al.	707/5
<input type="checkbox"/>	5535382	July 1996	Ogawa	707/5
<input type="checkbox"/>	5754939	May 1998	Herz et al.	455/4.2

OTHER PUBLICATIONS

Savoy, "A New Probabilistic Scheme for Information Retrieval in Hypertext", New Review of Hypermedia and Multimedia, Applications and Research, vol. 1, pp. 107-34, 1995.

Fuhr et. al. Probabilistic Learning Approaches for indexing and retrieval with the TREC-2 Collection, TREC Text REtrieval Conference, pp. 67-74, 1993.

ART-UNIT: 277

PRIMARY-EXAMINER: Choules; Jack M.

ATTY-AGENT-FIRM: Culliss; Gary

ABSTRACT:

A method of organizing information in which the search activity of a user is monitored and such activity is used to organize articles in a subsequent search by the same or another user who enters a similar search query. The invention operates by assigning scores to articles under the key terms in the index. As users enter search queries and select articles, the scores are altered. The scores are then used in subsequent searches to organize the articles that match a search query. As millions of people use the Internet, type in millions of search queries, and display or select from the many articles available over the Internet, the ranks the information available over the Internet through an evolutionary process. The invention includes additional embodiments which incorporate category key terms and rating key terms.

46 Claims, 1 Drawing figures

[Previous Doc](#)

[Next Doc](#)

[Go to Doc#](#)

[First Hit](#) [Fwd Refs](#)[Previous Doc](#)[Next Doc](#)[Go to Doc#](#)

Generate Collection



Print

L25: Entry 194 of 212

File: USPT

Apr 8, 1997

US-PAT-NO: 5619713

DOCUMENT-IDENTIFIER: US 5619713 A

TITLE: Apparatus for realigning database fields through the use of a crosspoint switch

DATE-ISSUED: April 8, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Baum; Richard I.	Poughkeepsie	NY		
Brent; Glen A.	Fishkill	NY		
Gibson; Donald H.	Salt Point	NY		
Lindquist; David B.	Poughkeepsie	NY		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE	CODE
International Business Machines Corporation	Armonk	NY				02

APPL-NO: 08/ 390143 [PALM]

DATE FILED: February 17, 1995

PARENT-CASE:

This is a Continuation of application Ser. No. 07/993,270 filed Feb. 11, 1993, now abandoned, which was a Divisional of application Ser. No. 07/499,844 filed Mar. 27, 1990, now U.S. Pat. No. 5,210,870.

INT-CL: [06] G06 F 7/24

US-CL-ISSUED: 395/800; 395/612, 364/239.3, 364/282.1, 364/DIG.1

US-CL-CURRENT: 707/102; 707/201

FIELD-OF-SEARCH: 395/800, 395/600, 364/239.3, 364/282.1, 364/DIG.1

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

☐ Search Selected☐ Search ALL☐ Clear

PAT-NO

ISSUE-DATE

PATENTEE-NAME

US-CL

3394731

July 1968

Flusche et al.

364/200

3713107

January 1973

Barsamian

340/172.5

<input type="checkbox"/>	<u>3976980</u>	August 1976	Hertz	395/600
<input type="checkbox"/>	<u>4476524</u>	October 1984	Brown et al.	364/200
<input type="checkbox"/>	<u>4497039</u>	January 1985	Kitakami et al.	364/900
<input type="checkbox"/>	<u>4506326</u>	March 1985	Shaw et al.	364/300
<input type="checkbox"/>	<u>4644471</u>	February 1987	Kojima et al.	364/300
<input type="checkbox"/>	<u>4734877</u>	March 1988	Sakata et al.	364/730
<input type="checkbox"/>	<u>4751635</u>	June 1988	Kret	395/600
<input type="checkbox"/>	<u>4779182</u>	November 1988	Torii et al.	364/200
<input type="checkbox"/>	<u>4799152</u>	January 1989	Chuang et al.	364/200
<input type="checkbox"/>	<u>5187787</u>	February 1993	Skeen et al.	395/600

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0066061	December 1982	EP	
0070119	January 1983	EP	
0178369	March 1989	JP	
2235798	March 1991	GB	
8912277	December 1989	WO	

OTHER PUBLICATIONS

Nikkei Electronics, Feb. 9, 1987, No. 414, by Torii et al, entitled "CPU Integrated Data Base Processor . . . Data Bases".

IBM Technical Disclosure Bulletin, vol. 31, No. 1, Jun. 1988, pp. 199-202, entitled "Improved Hash and Index Searching Tech . . . Memory" by Bozman et al.

IBM TEchnical Disclosure Bulletin, vol. 31, No. 1, Jun. 1988, pp. 219-225, entitled "Relational Assignments For Distributed Database Systems" by D. Cornell et al.

IBM TEchnical Disclosure Bulletin, vol. 30, No. 5, Nov. 1987, entitled "Parallel Equi-Join Algoritm . . . Operations" by G. Pfister.

Computerworld Article, Jul. 27, 1987, "Britton Lee UnCorke Data Base Series".

IEEE Computer Society Press, Jul. 1986, pp. 1233-1244, "A Relational Database Machine Organization For Parallel Pipelined Query Execution" by Hirakawa et al.

1986 ACM 0-89791-191-1, pp. 239-250, "Query Processing in Main Memory Database Management Systems", by T. Lehman, et al.

1983 ACM 0362-5915, pp. 15-40, "Operational Characteristics of a Hardware Based Pattern Matcher" by R. Haskin et al.

1982 ACM 0-89791-066-4, pp. 39-47, "The 801 Minicomputer", by G. Radin.

IBM TEchnical Disclosure Bulletin, vol. 20, No. 7, Dec. 1977, entitled "Offset Value Coding" by W. M. Conner.

The Systems Programming Series--"Sorting and Sort Systems", by H. Lorin, Copyright 1975, Lib. Cong. Cat. 73-2140, pp. 59-86.

IBM Technical Disclosure Bulletin, vol. 15, No. 1, Jun. 1972, pp. 297-304, entitled "Arrangment to Speed Up Sort Merge by Using Multiple Compares and Exchanges", by F. Tsui et al.

Patent Abstracts of Japan, vol. 13, No. 448, p. 942, Oct. 9, 1989. Pub. No. JP1173229.

Patent Abstracts of Japan, vol. 14, No. 179, p. 1034, Apr. 10, 1990. Pub No. JP2028878.

Becker et al., "Computer Assisted Prior Art Searching," Journal of the Patent

Office Society , vol. 65, No. 10, Oct. 1983, pp. 536-585.

ART-UNIT: 232

PRIMARY-EXAMINER: An; Meng-Ai T.

ASSISTANT-EXAMINER: Harrity; John

ATTY-AGENT-FIRM: Augspurger; Lynn L.

ABSTRACT:

A processor functioning as a coprocessor attached to a central processing complex provides efficient execution of the functions required for database processing: sorting, merging, joining, searching and manipulating fields in a host memory system. The specialized functional units: a memory interface and field extractor/assembler, a Predicate Evaluator, a combined sort/merge/join unit, a hasher, and a microcoded control processor, are all centered around a partitioned Working Store. Each functional unit is pipelined and optimized according to the function it performs, and executes its portion of the query efficiently. All functional units execute simultaneously under the control processor to achieve the desired results. Many different database functions can be performed by chaining simple operations together. The processor can effectively replace the CPU bound portions of complex database operations with functions that run at the maximum memory access rate improving performance on complex queries.

3 Claims, 31 Drawing figures

[Previous Doc](#)

[Next Doc](#)

[Go to Doc#](#)

[First Hit](#) [Fwd Refs](#)[Previous Doc](#)[Next Doc](#)[Go to Doc#](#)

Generate Collection

Print

L25: Entry 195 of 212

File: USPT

Jan 14, 1997

US-PAT-NO: 5594899

DOCUMENT-IDENTIFIER: US 5594899 A

**** See image for Certificate of Correction ****

TITLE: Operating system and data base having an access structure formed by a plurality of tables

DATE-ISSUED: January 14, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Knudsen; Helge	Oakville			CA
Chong; Daniel T.	Woodbridge			CA
Yaffe; John	Mississauga			CA
Taughner; James E.	Mississauga			CA
Robertson; Michael	Mississauga			CA
Plazak; Zbigniew	Etobicoke			CA

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Amdahl Corporation	Sunnyvale	CA			02

APPL-NO: 08/ 347588 [PALM]

DATE FILED: December 1, 1994

PARENT-CASE:

CROSS-REFERENCE TO RELATED APPLICATIONS This application is a continuation of Ser. No. 08/029,902, filed Mar. 11, 1993, now abandoned, which is a divisional of Ser. No. 07/968,237, filed Oct. 29, 1992, now abandoned, which is a continuation of Ser. No. 07/830,548, filed Jan. 31, 1992, now abandoned, which is a continuation of Ser. No. 07/450,298, filed Dec. 13, 1989, now abandoned, which is a continuation-in-part of Ser. No. 07/402,862, filed Sep. 1, 1989, now abandoned under the title "OPERATING SYSTEM AND DATA BASE USING TABLE ACCESS METHOD".

INT-CL: [06] G06 F 17/30

US-CL-ISSUED: 395/600; 364/DIG.2, 364/974, 364/974.4, 364/972.3, 364/958, 364/958.1

US-CL-CURRENT: 707/2

FIELD-OF-SEARCH: 395/600

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

Search ALL

Clear

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>4893232</u>	January 1990	Shimaoka et al.	364/200
<input type="checkbox"/>	<u>4918593</u>	April 1990	Huber	364/200
<input type="checkbox"/>	<u>5133068</u>	July 1992	Crus et al.	395/600

OTHER PUBLICATIONS

"Table Storage Architecture for the OS/2 Extended Edition Database Manager", IBM Technical Disclosure Bulletin, vol. 32, No. 5A, Oct. 1989, pp. 30-32.
M. Papazoglou, "An Extensible DBMS for Small and Medium Systems", IEEE Micro, vol. 9, No. 2, Apr. 1989, pp. 52-68.
A. Brown et al., "Data Base Management for HP Precision Architecture Computers", Hewlett-Packard Journal, vol. 37, No. 12, Dec. 1986, pp. 33-48.
D. J. Haderle et al., "IBM Database 2 Overview", IBM Systems Journal, vol. 23, No. 2, 1984, pp. 112-125.

ART-UNIT: 236

PRIMARY-EXAMINER: Kriess; Kevin A.

ASSISTANT-EXAMINER: Chaki; Kakali

ATTY-AGENT-FIRM: Fliesler, Dubb, Meyer & Lovejoy

ABSTRACT:

An object access system for retrieving objects in response to requests identifying requested objects, the system comprising an access structure consisting of a plurality of tables where each table is identified by a unique table identifier and has a plurality of rows where each row has a plurality of fields and is identified by a unique primary key in one of the fields and where a field may also contain objects; a row index for each table, each row index having entries ordered on the primary key of the rows in the table where each entry points to a row of fields in the table; a table index ordered on the table identifier for the tables, the table index having an entry for each table which point to the row index for that table and access means, responsive to requests for an object having an associated table identifier and primary key, for searching the table index for the requested table identifier and for retrieving from the table index entry for the requested table identifier the pointer to the row index for the requested table identifier, searching the pointed to row index for the requested primary key and retrieving from the row index entry for the requested primary key the pointer to the row of fields and searching the pointed to row of field for the requested object and retrieving the requested object.

2 Claims, 40 Drawing figures

[Previous Doc](#)[Next Doc](#)[Go to Doc#](#)

[First Hit](#) [Fwd Refs](#)[Previous Doc](#)[Next Doc](#)[Go to Doc#](#)

Generate Collection

[Print](#)

L25: Entry 201 of 212

File: USPT

Aug 8, 1995

US-PAT-NO: 5440732

DOCUMENT-IDENTIFIER: US 5440732 A

TITLE: Key-range locking with index trees

DATE-ISSUED: August 8, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lomet; David B.	Westford	MA		
Green; Russell J.	Edinburgh			GB6

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE	CODE
Digital Equipment Corp., Pat. Law Gr.	Maynard	MA				02

APPL-NO: 08/ 014181 [\[PALM\]](#)

DATE FILED: February 5, 1993

INT-CL: [06] [G06 F 15/40](#)

US-CL-ISSUED: 395/600; 364/246.8, 364/246.3, 364/246.4, 364/282.1, 364/282.3, 364/283.2, 364/DIG.1

US-CL-CURRENT: [707/1](#); [707/8](#)

FIELD-OF-SEARCH: 364/DIG.1, 364/DIG.2, 395/600, 395/400, 395/425

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

[Search Selected](#)[Search ALL](#)[Clear](#)

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	4468728	August 1984	Wang	364/DIG.1
<input type="checkbox"/>	4677550	June 1987	Ferguson	364/300
<input type="checkbox"/>	4774657	September 1988	Anderson et al.	364/DIG.1
<input type="checkbox"/>	4914596	April 1990	Levine et al.	364/200
<input type="checkbox"/>	5010478	April 1991	Deran	364/DIG.1
<input type="checkbox"/>	5058002	October 1991	Nakamura et al.	364/200
<input type="checkbox"/>	5089952	February 1992	Bozman	395/725

<input type="checkbox"/>	<u>5119490</u>	June 1992	Kurose	395/600
<input type="checkbox"/>	<u>5123104</u>	June 1992	Levine et al.	395/600
<input type="checkbox"/>	<u>5237678</u>	August 1993	Kuechler et al.	395/600

OTHER PUBLICATIONS

Litwin, Witold, and Lomet, David B., "The Bounded Disorder Access Method," IEEE Computer Society Press, 1986, pp. 38-48.

Lomet, David B., "A Simple Bounded Disorder File Organization with Good Performance," ACM Transactions on Database Systems, vol. 13, No. 4, Dec. 1988, pp. 525-551.

Mohan, C., "ARIES/KVL: A Key-Value Locking Method for Concurrency Control of Multiaction Transactions Operating on B-Tree Indexes," Proc. Very Large Databases Conference, Brisbane, Australia, Aug. 1990.

Mohan, C. and Levine, F., "ARIES/IM: An Efficient and High Concurrency Index Management Method Using Write-Ahead Logging," IBM Research Report RJ 6846, Aug. 1989, Almaden Research Center, San Jose, Calif.

Gray, J. N., Lorie, R. A., Putzulo, G. R., and Traiger, I. L., "Granularity of Locks and Degrees of Consistency in a Shared Data Base," IFIP Working Conference on Modeling of Data Base Management Systems, 1976, 1-29.

ART-UNIT: 237

PRIMARY-EXAMINER: Black; Thomas G.

ASSISTANT-EXAMINER: Von Buhr; Maria N.

ATTY-AGENT-FIRM: Johnston; A. Sidney Born; Joseph H.

ABSTRACT:

A database-management system (10) generates bounded-disorder indexes on its database keys. In such an index, the leaf nodes (51, 62) are large and are divided into a number of buckets (52, 54, 56, 58), only one of which ordinarily is accessed in any given single-record database operation. The key values in a leaf node are distributed among the leaf node's buckets in accordance with a hashing function. The lockable ranges locked for scanning functions are defined in accordance with key-valued locking, in which each lockable range is bounded by successive key values that exist in the database. But the multiple-bucket accesses that would otherwise be required, because of the hash-function distribution of key values among a node's several buckets, are avoided because the lockable ranges are defined by the sequence of key values in the bucket rather than in the node. In addition to the existing key values, moreover, the buckets' key-value limits are also employed to bound lockable ranges, even if no database records contain those key-value limits. This prevents end-of-bucket insertions and deletions from needing further I/O operations in order to identify the lockable ranges that those insertions and deletions modify.

9 Claims, 9 Drawing figures

[Previous Doc](#)

[Next Doc](#)

[Go to Doc#](#)